

Ahmat Barkai Moussa

Task 9 - Excel Export ve Import : Oluşturduğunuz tablo için Backoffice üzerinden Excel ile veri import etme ve export etme işlemlerini gerçekleştirin. Import sırasında veri mevcut ise güncellesin, mevcut değil ise yeni eklesin. Mevcut olup olmadığının kontrolü için unique bir alana bakılmalıdır. (Task 5'de yaptığınız gibi tek bir alan index değilken iki alan bir araya gelince unique oluyor, query'de buna göre yazılmalıdır.) Referans için ReferenceDistance tablosu için yazılan import ve export kodlarına bakabilirsiniz.

1 – Öncelikle ExcelConstant'ta TrainingProduct interface oluşturuyoruz ve attributleri yazıyoruz.

```
interface TrainingProduct{  
  
    String PRODUCTNAME ="Product Name";  
  
    String COMPANYNAME = "Company Name";  
  
}
```

2- Tabloyu import etmek için ReferenceDistanceImportPerformer reference olarak alarak TrainingProductTableImportPerformer sınıfını oluşturuyoruz ve içinde gereken logic'lerimizi yazıyoruz .

```

13 1 usage
14 public class TrainingProductTableImportPerformer extends AbstractMatchableExcelOperationPerformer{
15     1 usage
16     @Resource(name="trainingProductDao")
17     private TrainingProductDao trainingProductDao;
18
19
20     @Override
21     protected void performInternal(Sheet sheet, BiFunction<Row, String, Optional<Cell>> cellIndexMap) {
22         forEachRow(sheet, row -> getOrCreateTableRow(headerKey -> cellIndexMap.apply(row, headerKey)));
23         getModelService().saveAll();
24     }
25
26     1 usage
27     private TrainingProductModel getOrCreateTableRow(Function<String, Optional<Cell>> cellIndexMap) {
28         String productName = getFullStringOrNull(cellIndexMap.apply(ExcelConstants.TrainingProduct.PRODUCTNAME).map(this::getCellAsString).orElse( other: null));
29         String companyName = getFullStringOrNull(cellIndexMap.apply(ExcelConstants.TrainingProduct.COMPANYNAME).map(this::getCellAsString).orElse( other: null));
30
31         final TrainingProductModel trainingProductModel = trainingProductDao.getTrainingProductByProductNameAndCompanyName(productName, companyName);
32
33         if(Objects.isNull(trainingProductModel)){
34             return createModel(cellIndexMap);
35         } else {
36             if(StringUtils.isEmpty(productName)){
37                 trainingProductModel.setProductName(productName);
38             }
39             if(StringUtils.isEmpty(companyName)){
40                 trainingProductModel.setCompanyName(companyName);
41             }
42             return trainingProductModel;
43         }
44     }
45     1 usage
46     private TrainingProductModel createModel(Function<String, Optional<Cell>> cellIndexMap){
47         TrainingProductModel trainingProductModel = getModelService().create(TrainingProductModel.class);
48
49         trainingProductModel.setProductName(cellIndexMap.apply(ExcelConstants.TrainingProduct.PRODUCTNAME).map(this::getCellAsString).orElse( other: null));
50         trainingProductModel.setCompanyName(cellIndexMap.apply(ExcelConstants.TrainingProduct.COMPANYNAME).map(this::getCellAsString).orElse( other: null));
51
52         return trainingProductModel;
53     }

```

TrainingProductImportPerformer beans'leri yazıyoruz

```

4282 <!-- Task 9 excel ImportPerformer beans-->
4283
4284 <bean id="trainingProductTableImportPerformer" parent="abstractMatchableExcelOperationPerformer"
4285     class="com.avansas.core.excel.TrainingProductTableImportPerformer">
4286     <property name="headers">
4287         <list>
4288             <util:constant static-field="com.avansas.core.excel.ExcelConstants.TrainingProduct.PRODUCTNAME"/>
4289             <util:constant static-field="com.avansas.core.excel.ExcelConstants.TrainingProduct.COMPANYNAME"/>
4290         </list>
4291     </property>
4292 </bean>
4293
4294 <bean id="trainingProductTableImportPerformerOperation" class="com.avansas.core.excel.MatchingExcelOperationHandler"
4295     parent="matchingExcelOperationHandler">
4296     <property name="performers">
4297         <list>
4298             <ref bean="trainingProductTableImportPerformer"/>
4299         </list>
4300     </property>
4301 </bean>

```

3- Download için yine referans sınıfı örnek olarak alarak TrainingProductTableDownloadEditor sınıfı oluşturuyoruz.

```
TrainingProductTableImportPerformer.java TrainingProductTableDownloadEditor.java ExcelConstants.java AvsCustomerAccountDaoImpl.java TrainingProduct
25
26 1 usage
27 public class TrainingProductTableDownloadEditor extends AbstractCockpitEditorRenderer<String> {
28
29     protected WidgetInstanceManager widgetInstanceManager;
30     3 usages
31     private Button downloadButton;
32
33     1 usage
34     @Resource
35     private TrainingProductDao trainingProductDao;
36
37     1 usage
38     private static final String TRAINING_PRODUCT_TABLE = "Training Product Table";
39     1 usage
40     private static final String FILE_NAME = "Training Product Table";
41
42
43     @Override
44     public void render(Component component, EditorContext<String> editorContext, EditorListener<String> editorListener) {
45
46         Validate.notNull(message: "All parameters are mandatory", new Object[]{component, editorContext, editorListener});
47         this.widgetInstanceManager = ((Editor) component).getWidgetInstanceManager();
48         Div containerDiv = new Div();
49         containerDiv.setParent(component);
50         VBox vbox = new VBox();
51         vbox.setParent(containerDiv);
52         generateDownloadButtonToolbar(vbox, editorContext);
53
54         this.downloadButton.addEventListeners( eventModel "onClick", (event) -> this.handleDownloadEvent());
55
56     }
57
58     1 usage
59     private void generateDownloadButtonToolbar(Vbox vbox, EditorContext<String> context) {
60         Hbox toolbar = new Hbox();
61         toolbar.setParent(vbox);
62         toolbar.setClass("vw-import-wizard-toolbar");
63         downloadButton = new Button(getLibnDecorator(context, parameterKey: "actionDownload", defaultFallbackIconKey: "action.download"));
64         toolbar.appendChild(downloadButton);
65
66         Div messageArea = new Div();
67         messageArea.setParent(vbox);
68     }
69
70     1 usage
71     private void handleDownloadEvent() throws IOException {
72         List<List<String>> results = trainingProductDao.getAll();
73
74         ByteArrayOutputStream baos = new ByteArrayOutputStream();
75         XSSFWorkbook workbook = new XSSFWorkbook();
76
77         if (!results.isEmpty()) {
78             List<String> columnNames = new ArrayList<>();
79             columnNames.add(ExcelConstants.TrainingProduct.PRODUCTNAME);
80             columnNames.add(ExcelConstants.TrainingProduct.COMPANYNAME);
81
82             createSheet(workbook, results, columnNames);
83             workbook.write(baos);
84             baos.close();
85         }
86
87         if (baos.size() > 0 && baos != null) {
88             Filedownload.save(baos.toByteArray(), contentType: "application/vnd.ms-excel", FILE_NAME);
89         }
90
91         this.widgetInstanceManager.getModel().changed();
92     }
93
94     1 usage
```

```
TrainingProductTableImportPerformer.java TrainingProductTableDownloadEditor.java ExcelConstants.java AvsCustomerAccountDaoImpl.java TrainingProduct...
87
88
89
90 1 usage
91 private void createSheet(XSSFWorkbook workbook, List<List<String>> results, List<String> columnNames) {
92     XSSFSheet sheet = workbook.createSheet(TRAINING_PRODUCT_TABLE);
93     writeToSheet(sheet, columnNames, results);
94 }
95
96 1 usage
97 private void writeToSheet(XSSFSheet sheet, List<String> columnNames, List<List<String>> results) {
98     HashMap<Integer, List<String>> data = new HashMap<>();
99     data.put(1, columnNames);
100     AtomicInteger atomicInteger = new AtomicInteger( initial value: 1);
101
102     results.stream().forEach(result -> {
103         data.put(atomicInteger.incrementAndGet(), result);
104     });
105
106     //Iterate over data and write to sheet
107     Set<Integer> keyset = data.keySet();
108     int rownum = 0;
109     for (Integer key : keyset) {
110         XSSFRow row = sheet.createRow(rownum++);
111         List<String> objArr = data.get(key);
112         int cellnum = 0;
113         for (String obj : objArr) {
114             org.apache.poi.ss.usermodel.Cell cell = row.createCell(cellnum++);
115             cell.setCellValue(obj);
116         }
117     }
118 }
119
120
121
122
123
124
```

4- TrainingProduct export formu oluşturuyoruz indirirken url modelimizdir .

```
TrainingProductTableDownloadEditor.java avansasbackoffice-backoffice-config.xml TrainingProductExportForm.java avansascore-spring.xml ExcelConsta...
1 package com.avansas.backoffice.widgets;
2
3 public class TrainingProductExportForm {
4
5     private String url;
6
7     public String getUrl() {
8         return url;
9     }
10
11     public void setUrl(String url) {
12         this.url = url;
13     }
14 }
```

5-avansasbackoffice-backofficespring.xml’de download wizard’ımızı oluturuyoruz

```
1399
1400 <context type="hmc.treenode.training_product_table_download_wizard" component="create-wizard">
1401     <wz:flow id="TrainingProductTableDownloadWizard" title="excel.training.product.export.title">
1402         <wz:prepare id="ImpExportPrepare">
1403             <wz:initialize property="TrainingProductExportForm"
1404                 type="com.avansas.backoffice.widgets.TrainingProductExportForm"/>
1405         </wz:prepare>
1406         <wz:step id="step1" label="excel.export.prepare.label" sublabel="impex.export.prepare.sublabel">
1407             <wz:content id="step1.content">
1408                 <wz:property-list root="TrainingProductExportForm">
1409                     <wz:property qualifier="url" editor="com.avansas.editor.trainingproductexport"/>
1410                 </wz:property-list>
1411             </wz:content>
1412             <wz:navigation id="step1.navigation">
1413                 <wz:done/>
1414             </wz:navigation>
1415         </wz:step>
1416     </wz:flow>
1417 </context>
1418
1419
1420
1421
1422
1423
1424
1425 <context type="hmc.treenode.traini lib (cockpit-data-integration-6.0.13-RC2.jar) component="configurableFlowDynamicForms">
1426     <df:dynamicForms modelProperty xsd:attribute on:www.w3.org> ris.com/cockpitng/component/dynamicForms">
1427         <df:attribute id="dynaIdForData" triggeredOn="distributedImpex" qualifier="sIdForData"
1428             disabledIf="distributedImpex==false" visibleIf="distributedImpex==true"/>
1429         <df:attribute id="dynaNodeGroup" triggeredOn="distributedImpex" qualifier="nodeGroup"
1430             disabledIf="distributedImpex==false" visibleIf="distributedImpex==true"/>
1431         <df:attribute id="dynaLogLevel" triggeredOn="distributedImpex" qualifier="logLevel"
1432             disabledIf="distributedImpex==false" visibleIf="distributedImpex==true"/>
1433         <df:attribute id="dynaProcessNumber" triggeredOn="distributedImpex" qualifier="processNumber"
1434             disabledIf="distributedImpex==true" visibleIf="distributedImpex==false"/>
1435         <df:attribute id="dynaErrorMode" triggeredOn="distributedImpex" qualifier="errorMode"
1436             disabledIf="distributedImpex==true" visibleIf="distributedImpex==false"/>
1437         <df:attribute id="dynaLogAuditTrail" triggeredOn="distributedImpex" qualifier="logAuditTrail"
1438             disabledIf="distributedImpex==true" visibleIf="distributedImpex==false"/>
1439     </df:dynamicForms>
1440 </context>
1441
1442
```

```

24 <context component="explorer-tree" merge-by="module">
25 <explorer-tree:explorer-tree xmlns:explorer-tree="http://www.hybris.com/cockpitng/config/explorertree">
26 <explorer-tree:navigation-node id="hmc_treenode_system">
27 <explorer-tree:navigation-node id="hmc_treenode_systemtools">
28 <explorer-tree:navigation-node id="hmc_treenode_excel_export_wizard"/>
29 <explorer-tree:navigation-node id="hmc_treenode_cutoff_download_wizard"/>
30 <explorer-tree:navigation-node id="hmc_treenode_w2p_download_wizard"/>
31 <explorer-tree:navigation-node id="hmc_treenode_reference_distance_download_wizard"/>
32 <explorer-tree:navigation-node id="hmc_treenode_training_product_table_download_wizard"/>
33 <explorer-tree:navigation-node id="hmc_treenode_excel_operation_wizard"/>
34 <explorer-tree:navigation-node id="hmc_treenode_landing_table_excel_operation_wizard"/>
35 <explorer-tree:navigation-node id="hmc_treenode_bundle_excel_operation_wizard"/>
36 <explorer-tree:navigation-node id="hmc_treenode_new_bundle_excel_operation_wizard"/>
37 <explorer-tree:navigation-node id="hmc_treenode_cdn_purge_wizard"/>
38 </explorer-tree:navigation-node>
39 </explorer-tree:navigation-node>
40 </explorer-tree:explorer-tree>
41 </context>

```

Explorer-tree'de de belirliyoruz(daha 2 yerde belirli)

6-widgets'te ve connections'ları yazıyoruz backoffice için :

```

<!-- Training widget -->
<widget id="training_product_download_conditionevaluator" widgetDefinitionId="com.hybris.cockpitng.conditionevaluator"
slotId="cockpitWidgetChildrenInvisible"
template="false">
<widget id="training_product_download_propertyextractor"
widgetDefinitionId="com.hybris.cockpitng.widgets.common.propextractor"
slotId="cockpitWidgetChildrenInvisible"
template="false">
<setting key="expression" type="String" value="id"/></setting>
<setting key="socketDataType_ST" type="String" value="java.lang.String"/></setting>
<setting key="widgetStyleAttribute" type="String" value=""></setting>
<setting key="widgetStyleClass" type="String" value=""></setting>
<virtual-sockets/>
</widget>
<setting key="expression" type="String" value="#root.id EQ 'hmc_treenode_training_product_table_download_wizard'"/></setting>
<setting key="socketDataType_ST" type="String"
value="com.hybris.backoffice.navigation.NavigationNode"/></setting>
<setting key="widgetStyleAttribute" type="String" value=""></setting>
<setting key="widgetStyleClass" type="String" value=""></setting>
<virtual-sockets/>
</widget>

```

```

<widget-connection sourceWidgetId="STUB_com.hybris.cockpitng.editor.bundleoperation" outputId="referenceEditorOutput" targetWidgetId="configurableFlow" inputId="referenceEditorOutput" />
<widget-connection sourceWidgetId="configurableFlow" outputId="wizardResult" targetWidgetId="STUB_com.hybris.cockpitng.editor.bundleoperation" inputId="referenceEditorOutput" />
<widget-connection sourceWidgetId="STUB_com.hybris.cockpitng.editor.bundleoperation" outputId="referenceSelected" targetWidgetId="collectionEditorAreaGroup" inputId="referenceEditorOutput" />
<widget-connection sourceWidgetId="STUB_com.hybris.cockpitng.editor.bundleoperation" outputId="referenceSearchCtx" targetWidgetId="referenceAdvancedSearch" inputId="referenceEditorOutput" />
</widgets>

```

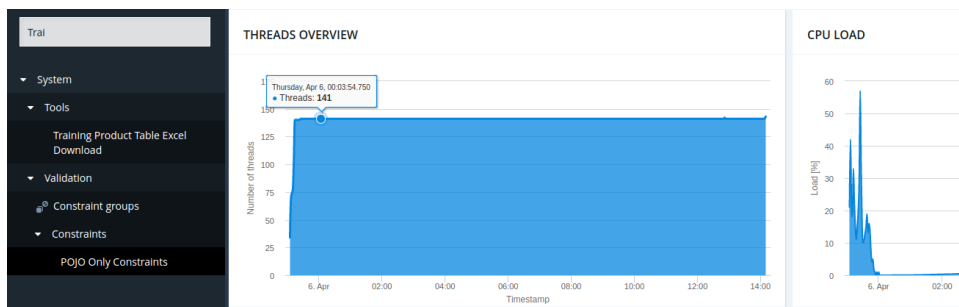
7-Download için editor tanımlamasını oluşturuyorum düğümün iyi görünmesi için .

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<editor-definition id="com.avansas.editor.trainingproductexport"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://www.hybris.com/schema/cockpitng/editor-definition.xsd">
<name>Training Product Download Editor</name>
<description>Download excel file of all Training products</description>
<author>Barkaik/author</author>
<version>0.1</version>
<type>java.lang.String</type>
<editorClassName>com.avansas.backoffice.widgets.TrainingProductTableDownloadEditor</editorClassName>
</editor-definition>

```

8- Test :



Tools'un altına excel download'umuz geldi başarıyla .

	A	B	C
1	Product Name	Company Name	
2	moise	samsun	
3	mackbook	apple	
4			
5			

	A	B	C
1	Product Name	Company Name	
2	moise	samsun	
3	mackbook	apple	
4	test_urun	test_sirket	
5			

ProductName ve companyName ekleyip import edip bakacağız veri tanına save edecek mi ?

Excel Operation

anyName

Operation Handler:

trainingProductTableImportPerformerOperation

Excel File:

UPLOAD

RESET

PERFORM

Uploaded file : Training Product Table (1).xls (4 KB)

DONE

Değiştirdiğimiz excel file'mizi upload ediyoruz.

Excel Operation

Operation Handler:

trainingProductTableImportPerformerOperation

Excel File:

UPLOAD

RESET

PERFORM

Finished successfully

For more information see also job with code 'trainingProductTableImportPerformerOperation-48818049-72ce-4f1f-b511-943bf61bd807'

DONE

Başarıyla import edildi .

FlexibleSearch

Flexible Query

SQL Query

Search result

Execution statistics

History

Commit: OFF

Search:

TypePkString	OwnerPkString	PK	p_productname	p_companyname	aCLTS	propTS	p_cronprod
8796550070354		8796420927492	test_urun	test_sirket	0	0	
8796550070354		8796420960260	moise	samsun	0	0	
8796550070354		8796420993028	mackbook	apple	0	0	

